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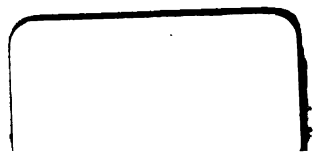
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THE MUSCLES,
WITH
THEIR VASCULAR & NERVOUS SUPPLY.

MANNING & ELLIOTT.

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THE MUSCLES
WITH THEIR
VASCULAR AND NERVOUS SUPPLY.

THE
MUSCLES OF THE HUMAN BODY
GROUPED ACCORDING TO THEIR ACTION
WITH THEIR VASCULAR AND NERVOUS SUPPLY

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MUSCLES OF HUMAN BODY GROUPED ACCORDING TO THEIR ACTION WITH THEIR NERVOUS AND VASCULAR SUPPLY.

MUSCLES GOVERNING THE MOVEMENT OF HEAD, FACE, AND NECK.

Muscle of Scalp. Occipito Frontalis	<i>Arteries</i>	{ Cranial branches of occipital and temporal. Supra orbital.
	<i>Nerves</i>	{ Frontal portion. Facial. Supra-trochlear and supra-orbital of frontal. Occipital portion. Posterior auricular of facial.

Muscles of external Ear.	Attrahens	<i>Arteries</i>	Branches of temporal.
		<i>Nerves</i>	Temporal of facial.
	Attollens	<i>Arteries</i>	Branches of temporal.
		<i>Nerves</i>	Small occipital. Auricular of facial.
	Retrahens	<i>Arteries</i>	Posterior auricular.
		<i>Nerves</i>	Posterior auricular of facial.

Muscles of Tympanum.	Tensor tympani	<i>Nerves</i>	Branch from otic ganglion.
	Laxator tympani	<i>Nerves</i>	{ Filament from facial. Chorda tympani by some anatomists.
	Stapedius	<i>Nerves</i>	Filament from facial.

NOTE. The Arteries of the Tympanum are:—Tympanic Branch of Internal Maxillary, Petrosal Branch of Middle Meningeal, Branches of Ascending Pharyngeal and Internal Carotid, and Stylo-Mastoid of Posterior Auricular.

Muscles of Eyebrow.	Depressor	{ Orbicularis Palpebrarum	{ (For nerves and arteries see page 3.)	
	Elevator	Occipito frontalis	{ (For nerves and arteries see page 1.)	
	Wrinkled by	Corrugator	<i>Arteries</i>	Angular of facial.
		Supercilii	<i>Nerves</i>	{ Facial. Supra-trochlear and supra-orbital of frontal.

Muscle of Lachrymal Canal.	} Tensor Tarsi	{	Arteries	Angular of facial.
			Nerves	Facial.

Muscles of Eyelids.	{ To shut	{ Orbicularis Palpebrarum	{	Arteries	Middle temporal.
				Nerves	Supra orbital.
	{ To open	{ Levator palpebræ Superioris	{	Arteries	Terminal branches of facial.
				Nerves	Palpebral branches of ophthalmic.
					Frontal of ophthalmic.
					Facial. Supra-orbital of frontal, and palpebral branches of superior maxillary nerve.
					Supra orbital of ophthalmic.
					Muscular of ophthalmic.
					3rd Cranial.

Muscles of Globe.	Elevator	Rectus superior	{ Arteries	{ Supra orbital of ophthalmic.
			{ Nerve	{ Muscular of ophthalmic.
				3rd Cranial.
	Depressor	Rectus inferior	{ Arteries	{ Muscular of ophthalmic.
			{ Nerve	{ Infra orbital of internal maxillary.
				3rd Cranial.
	Adductor	Rectus internus	{ Arteries	{ Muscular of ophthalmic.
			{ Nerve	{ 3rd Cranial.
	Abductor	Rectus externus	{ Arteries	{ Muscular of ophthalmic.
			{ Nerve	{ 6th Cranial.
	Rotators	Superior oblique	{ Arteries	{ Muscular of ophthalmic.
			{ Nerve	{ 4th Cranial.
		Inferior oblique	{ Arteries	{ Muscular of ophthalmic.
			{ Nerve	{ Infra orbital of internal maxillary.
				3rd Cranial.

Muscles of Nose.	{	Of integuments cover- ing nose	{	Pyramidalis nasi	{ <i>Arteries</i>	{ Frontal of ophthalmic.
					{ <i>Nerves</i>	{ Angular of facial. [maxillary.
			{	Compressor naris	{ <i>Arteries</i>	Facial, and nasal branches of superior
					{ <i>Nerves</i>	Lateral of facial. [maxillary.
	{	Of aperture of nose	{	Levator labii superioris alæque nasi	{ <i>Arteries</i>	Facial. [maxillary.
					{ <i>Nerves</i>	Facial, and nasal branches of superior
			{	Dilator naris (anterior and pos- terior)	{ <i>Arteries</i>	Lateral of facial.
					{ <i>Nerves</i>	Facial.
			{	Compressor naris (widens the aper- ature)	{ (See above.)	
{	To close	{	Depressor alæ nasi	{ <i>Arteries</i>	Lateral nasal of facial.	
				{ <i>Nerves</i>	Facial.	

Muscles of Mouth.	{	To close	Orbicularis oris	{ <i>Arteries</i>	{ Coronary, (superior and inferior.)
				{ <i>Nerves</i>	{ Inferior labial. [dental.
					Facial, and mental branch of inferior

Muscles of Mouth. (Continued.)	Of upper lip	To elevate	Levator labii superioris	Arteries	Infra orbital.
			Levator labii superioris alæque nasi	Nerves	Facial. [maxillary.
				See page 5.	Facial, and labial branches of superior
			Zygomaticus major and minor	Arteries	Transverse facial of temporal.
	Of lower lip	To elevate		Nerves	Facial. [maxillary.
					Facial, and labial branches of superior
		To depress	Levator labii inferioris and partly by orbicularis oris	Arteries	Inferior labial.
				Nerves	Facial.
	Of angle	To elevate		Arteries	Sub-mental.
				Nerves	Inferior coronary.
		To depress	Depressor labii inferioris	Arteries	Inferior labial of facial. [dental.
				Nerves	Facial, and mental branch of inferior
	Retractors	To elevate	(Levator anguli oris)	Arteries	Facial.
				Nerves	Facial.
		To depress	(Depressor anguli oris)	Arteries	Facial. [dental.
				Nerves	Facial and mental branch of inferior
			Risorius muscles	Arteries	Inferior coronary.
				Nerves	Inferior labial.
					Facial.

Muscles of Mastication. To depress lower jaw

{	Platysma	<i>Arteries</i>	{ Superficial cervical.
		<i>Nerves</i>	{ Facial.
	Digastric	{	{ Posterior auricular and muscular of occipital.
		<i>Arteries</i>	{ Sub-mental.
		<i>Nerves</i>	{ Anterior belly—mylo-hyoid of inferior dental.
	Mylo-hyoid	{	{ Sublingual mylo-hyoid of inferior dental.
		<i>Arteries</i>	{ Hyoid branch of superior thyroid and sub-mental.
		<i>Nerves</i>	{ Mylo-hyoid of inferior dental.
	Genio-hyoid	<i>Arteries</i>	{ Hyoid of lingual and sub-mental.
		<i>Nerves</i>	{ Hypo-glossal.
	Genio-hyo-glossus	<i>Arteries</i>	{ Hyoid branch of lingual and sub-lingual.
		<i>Nerves</i>	{ Hypo-glossal.

Muscles of Mastication (Continued.)	To elevate lower jaw	Masseter	{	<i>Arteries</i>	{	Masseteric branch of internal maxillary.			
				<i>Nerves</i>	{	Muscular of facial. Transverse facial of temporal. Inferior maxillary.			
		Internal ptery- goid	{	<i>Arteries</i>	{	Muscular of facial. Pterygoid branches of internal maxillary.			
				<i>Nerves</i>	{	Inferior maxillary.			
		Temporal	{	<i>Arteries</i>	{	Middle temporal. Deep temporal branches of internal maxil- lary.			
				<i>Nerves</i>	{	Inferior maxillary.			
	Triturating muscles	{	From be- fore back	{	Both external pterygoids	{	<i>Arteries</i>	{	Pterygoid branches of internal maxillary.
							<i>Nerves</i>	{	Buccal branch of inferior maxillary. Pterygoid branches of inferior maxillary.
		{	From side to side	{	One external pterygoid.	{			
To keep the food be- tween the teeth	Buccinator	{	{	<i>Arteries</i>	{	Buccal branch of internal maxillary, Muscular of facial.			
				<i>Nerves</i>	{	Facial, and posterior dental of superior max- illary. Buccal branch of inferior maxillary.			

Muscles of Tongue.	To protrude	{ Posterior and inferior fibres of } Genio-hyo-glossi	{ Arteries } { Nerves }	Lingual and hyoid branches of lingual. Hypo-glossal.
	To retract	{ Anterior fibres of genio-hyo-glossus.		
		Hyo-glossi	{ Arteries } { Nerves }	Lingual and hyoid branches of lingual. Hypo-glossal.
		Stylo-glossi (when tongue is protruded)	{ Arteries } { Nerves }	Ascending palatine of facial and lingual. Hypo-glossal
	To elevate base to roof of mouth	* Stylo-glossi (see above)		
		Palato-glossi	{ Arteries } { Nerves }	{ Pharyngeal branches of ascending pharyngeal. Lingual. Palatine branches of Meckel's ganglion.
	To depress apex and centre and make convex from before back	Linguales	{ Arteries } { Nerves }	Branches of lingual, Chorda tympani.
	To depress sides of tongue when it is in the mouth			

* The Stylo-glossi also act in moving the tip of tongue against the teeth.

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Muscles of Tongue. { To depress and make hollow and concave } All the fibres of Genio-hyo-glossi acting together.
 (Continued.) { from side to side }

Muscles of Pharynx.	Constrictors	Inferior	{ <i>Arteries</i> <i>Nerves</i>	{ Pharyngeal of ascending Pharyngeal. Pharyngeal plexus and glosso-pharyngeal nerve and external laryngeal.
		Middle	{ <i>Arteries</i> <i>Nerves</i>	{ (Same as inferior constrictor). Pharyngeal plexus and glosso-pharyngeal nerve.
		Superior	{ <i>Arteries</i> <i>Nerves</i>	{ (Same as other constrictors). (Same as for middle constrictors.)
	Elevator	Stylo-pharyngeus	{ <i>Arteries</i> <i>Nerves</i>	{ Pharyngeal of ascending pharyngeal and palatine of facial. Pharyngeal plexus and glosso-pharyngeal.
		Salpingo-pharyngeus	{ <i>Arteries</i> <i>Nerves</i>	{ Same as for Stylo-pharyngeus.

Muscles of Soft Palate	Elevators	{ Levator palati Azygos uvulæ	{ Arteries Nerves	{ Descending palatine of internal maxillary. Palatine of facial. Pharyngeal branches of ascending pharyngeal.
				{ Facial, through the connection of its trunk with the vidian by the petrosal nerves.
	Depressors	{ Palato glossus (see page 9). Palato pharyngeus	{ Arteries Nerves	{ Same as for levator palati.
				{ Palatine branches of facial. Descending palatine of internal maxillary. Pharyngeal branches of ascending pharyngeal.
	To make tense	Tensor palati	{ Arteries Nerves	{ Palatine branches of Meckel's ganglion.
				{ Palatine of facial. Pharyngeal branches of ascending pharyngeal. Branch from otic ganglion.

Muscles of Hyoid Bone.	Depressors	Omo-hyoid	<i>Arteries</i>	Muscular of supra scapular.
			<i>Nerves</i>	Hyoid of superior thyroid. Branches from the loop, between descendens and communicans noni.
		Sterno-hyoid	<i>Arteries</i>	Muscular of superior thyroid.
			<i>Nerves</i>	Hyoid branch of superior thyroid. Branches of communication between des- cendens and communicans noni.
		Sterno-thyroid	<i>Arteries</i>	Same as for sterno hyoid.
			<i>Nerves</i>	
	Elevators	Thyro-hyoid	<i>Arteries</i>	Same as for sterno hyoid.
			<i>Nerves</i>	Hypo glossal.
		Digastric (see page 7).		
		Stylo-hyoid	<i>Arteries</i>	Posterior auricular.
			<i>Nerves</i>	Muscular of occipital. Ascending palatine of facial.
		Mylo-hyoid (see page 7).		Facial.
		Genio-hyoid		

Muscles of Larynx.	Glottis	To open	{ Crico arytaenoi- dei postici	{ Arteries Nerves	{ Laryngeal branches of inferior and superior thyroid. Inferior laryngeal.
		To close	{ Arytaenoides Crico arytaenoi- dei laterales	{ Arteries Nerves Arteries Nerves	{ Laryngeal branches of inferior and superior thyroid. Inferior and superior laryngeal. Laryngeal of superior thyroid. Inferior laryngeal.
	Regulators of vocal cords	{ To make tense and elongate	{ Crico thyroidei	{ Arteries Nerves	{ Crico thyroid of superior thyroid. Superior laryngeal.
		{ To relax and shorten	{ Thyro arytaenoi- dei	{ Arteries Nerves	{ Laryngeal of superior and inferior thyroids. Inferior laryngeal.
	Depressor of epiglottis		{ Thyro epiglotti- deus	{ Arteries Nerves	{ Laryngeal of superior thyroid. Inferior laryngeal.
	Compressor of sacculi laryngis		{ Arytaeno epi- glottidei	{ Arteries Nerves	{ Laryngeal of superior thyroid. Inferior laryngeal.

Movements of Head. To extend	Splenius capitis	Arteries	Muscular of occipital.
			Muscular of vertebral.
			Princeps cervicis of occipital.
		Nerves	External posterior branches of cervical nerves.
	Trachelo mastoid	Arteries	Muscular of occipital.
			Muscular of vertebral. [cal.
		Nerves	External posterior branches of cervical nerves.
	Complexus	Arteries	Muscular of vertebral. [cervical.
			Princeps cervicis of occipital and deep
		Nerves	Internal posterior branches of cervical nerves.
			Sub-occipital. [cal.
			Great occipital.
	Rectus posticus (minor)	Arteries	Muscular of vertebral.
			Princeps cervicis.
		Nerves	Sub-occipital.
			Great occipital.
	Superior oblique	Arteries	Muscular of vertebral.
			Princeps cervicis.
		Nerves	Sub-occipital.
			Great occipital.

Movements of Head. (Continued.)	} To bend	{ Forward	Platysma (see page 7).		
			Sterno mastoids	{ Arteries	{ Muscular of occipital.
				{ Nerves	{ Sterno mastoid of superior thyroid.
			Recti antici (major and minor)	{ Arteries	{ Posterior auricular.
				{ Nerves	{ Spinal accessory.
					{ Deep branches of cervical plexus.
	} To same side		One Sterno mastoid (see above).		{ External branches of ascending pharyngeal.
			Trachelo mastoid (see page 14).		{ Ascending cervical of inferior thyroid.
			Splenius capitis (see page 14).		{ Sub-occipital.
			Rectus lateralis	{ Arteries	{ Deep branches of cervical plexus.
				{ Nerves	
					Vertebral.
					Sub-occipital.

Movements of Head. (Continued.)	} Rotation	{	{	To same side	{	in front	{	Rectus anticus (major and minor), see page 15.	{	Arteries	{ Vertebral.	
								Longuscolli		Nerves	{ Ascending cervical of inferior thyroid, Branches of lower cervical nerves.	
							{	Splenius capitis (see page 14.)	{	Arteries	{ Muscular of vertebral Princeps cervicis.	
								Trachelo mastoid (see page 14.)				Nerves
							{	Rectus posti- cus major	{	Arteries	{ Muscular of vertebral. Princeps cervicis of occipital,	
												Nerves
							{	Inferior obli- que	{	Arteries	{ Muscular of vertebral. Princeps cervicis of occipital,	
												Nerves
							{	To oppo- site side	{	Sterno mastoid (see page 15.)		
										Styloid muscles.		

Movements of Spine.	To bend spine forwards*	Cervical re- gion	Longus colli	{ Arteries Nerves	{ See page 16.						
			Scaleni antici if ribs are fixed and both muscles are in ac- tion			{ For arteries and nerves see muscles of respira- tion, (page 20).					
		Dorsal re- gion	{ Abdominal muscles (see muscles of respiration).								
		Lumbar re- gion	Psoas								
			Magnus								
		To extend	Cervical re- gion	Psoas	{ Arteries Nerves	{ Anastomoses between occipital, ver- tebral, and deep cervical of supe- rior intercostal.					
				Parvus			{ External posterior branches of cervi- cal nerves.				
				Splenius colli				{ Arteries	{ Anastomoses between occipital, ver- tebral, and deep cervical of supe- rior intercostal. [cal nerves.		
				Cervicalis ascen- dens						{ Nerves	{ Internal posterior branches of cervi-
				Transversalis colli							
Spinalis colli											
				Semi-spinalis colli	{ Arteries	{					
				Inter-spinales			{ Nerves	{			
				Inter-transversales							
				Supra-spinales							

* Lateral flexion of the spine is effected by the flexors in front, and extensors behind. Those of one side acting simultaneously.

Movements of Spine. (Continued.)	} To extend	{ Dorsal and lumbar regions	{ <div> Spinalis dorsi Longissimus- dorsi Sacro- lumbalis Accessorius </div>	} Erector spinæ	{ Arteries	{ External posterior branches of intercostals.	
						{ Nerves	{ Sacro-lumbalis by posterior branches of lumbar arteries, and external posterior branches of intercostals.
							{ External posterior branches of dorsal and lumbar.
					{ Multifidus spinæ		{ Arteries
						{ Internal posterior branches of the lumbar arteries.	
						{ Nerves	{ Internal posterior branches of cervical, dorsal, and lumbar nerves.
			{ Internal posterior branches of sacral.				
			{ Semi-spinalis dorsi	{ Arteries	{ Internal posterior branches of intercostals.		
					{ Nerves	{ Internal posterior of dorsal nerves.	
			{ Inter-spinalis dorsi.	Same as for semi-spinalis dorsi.			
{ Inter-transversales	{ Arteries	{ Internal posterior branches of intercostal and lumbar arteries.					
		{ Nerves	{ Internal posterior branches of dorsal and lumbar.				

Movements of Spine. (Continued.)	} Rotation	{ To same side	{ Splenius colli	{ <i>Arteries</i> <i>Nerves</i>	} See page 17.
			{ Internal oblique (of abdomen)	{ <i>Arteries</i> <i>Nerves</i>	} See Respiratory muscles.
		{ To opposite side	{ Multifidus spinæ (see page 18).		
			{ Rotatores spinæ	{ <i>Arteries</i> <i>Nerves</i>	{ Internal posterior branches of inter- costals. Internal posterior of dorsal nerves.
			{ Semispinales (see pages 17 and 18).		
			{ External oblique (of abdomen).		See Respiratory muscles.

MUSCLES OF RESPIRATION.

Ordinary Inspiration.	External intercostals	{ <i>Arteries</i> <i>Nerves</i>	{ Anterior intercostals of internal mammary. Ditto of thoracic aorta. Intercostals.
	Internal intercostals between the cartilages	{ <i>Arteries</i> <i>Nerves</i>	{ Anterior intercostals of internal mammary. Collateral branches of thoracic aorta. Intercostals.
	Serrati postici superiores	{ <i>Arteries</i> <i>Nerves</i>	{ Dorsal branches of intercostal. External posterior branches of cervical.
	Levatores costarum	{ <i>Arteries</i> <i>Nerves</i>	{ Intercostals. Intercostals. [ferior thyroid.
	Scaleni	{ <i>Arteries</i> <i>Nerves</i>	{ Transverse cervical, and ascending cervical of inferior thyroid. Branches from lower cervical nerves.
	Diaphragm	{ <i>Arteries</i> <i>Nerves</i>	{ Comes nervi phrenici, of internal mammary. Musculo phrenic of ditto. Diaphragmatic of abdominal aorta. Phrenic.

Ordinary Expiration. Elasticity of lung tissue and thoracic walls.

Forced Expiration.	{	Internal intercostals between the bones	{	For nerves and arteries see page 20.		
		Infra costales		<i>Arteries</i>	Intercostals.	
				<i>Nerves</i>	Intercostals.	
		Triangularis sterni		<i>Arteries</i>	Sternal branches of internal mammary.	
				<i>Nerves</i>	Anterior branches of intercostals.	
		Serrati postici inferiores		<i>Arteries</i>	Dorsal branches of intercostals.	
				<i>Nerves</i>	External branches of dorsal nerves.	
		Quadratus lumborum		{	<i>Arteries</i>	Lumbar arteries.
					<i>Nerves</i>	Lumbar branches of ilio lumbar.
						Anterior branches of lumbar nerves.
Obliqui externi	{	<i>Arteries</i>	Superior epigastric.			
			Musculo phrenic.			
			Muscular of epigastric.			
			Iliac of ilio lumbar.			
			Abdominal branches of lumbar.			
	<i>Nerves</i>		Lower intercostal, ilio-hypogastric, and ilio-in-	[guinal.		

Forced Expiration. (Continued.)	Obliqui interni	<i>Arteries</i>	Muscular of epigastric. Circumflex iliac. Iliac of ilio lumbar. Abdominal branches of lumbar arteries.
		<i>Nerves</i>	Lower intercostal, ilio-hypogastric and ilio-in- guinal.
	Transversales	<i>Arteries</i>	Muscular of epigastric. Circumflex iliac. Iliac of ilio lumbar. Abdominal of lumbar.
		<i>Nerves</i>	Lower intercostal, ilio-hypogastric and ilio-in- guinal.
	Recti	<i>Arteries</i>	Muscular of epigastric. Musculo phrenic of internal mammary.
		<i>Nerves</i>	Lower intercostal, ilio-hypogastric and ilio-in- guinal.
	Pyramidales	<i>Arteries</i>	Muscular of epigastric.
		<i>Nerves</i>	Lower intercostal, ilio-hypogastric and ilio-in- guinal.

Forced Inspiration. { Pectorales (major and minor) with arm fixed.
 Serrati magni.
 Subclavii.
 Latissimi dorsi with arm fixed.
 Sterno mastoids.
 Sterno hyoids.
 Cervicales ascendentes.

Muscles of Ischio Rectal Region.	{	Sphincters of anus	{	Sphincter externus	{ <i>Arteries</i> Inferior hæmorrhoidals of internal pudic.
					{ <i>Nerves</i> Inferior hæmorrhoidal and inferior perineal of internal pudic, and hæmorrhoidal branch of 4th sacral.
			Sphincter internus	Involuntary muscle supply same as rectum.	
	{	Elevators	Levatores ani	{ <i>Arteries</i> Inferior hæmorrhoidal of internal pudic. Sciatic.	{ <i>Nerves</i> Superficial perineal of internal pudic. 4th anterior sacral.

Perineum.	Muscles connected with spongy part of urethra	Ejaculator urinæ (sphincter vaginæ in female)	<i>Arteries</i> <i>Nerves</i>	<i>{</i> Superficial perineal of internal pudic. <i>}</i> Muscular of perineal.
		Transversus perinæi	<i>Arteries</i> <i>Nerves</i>	<i>{</i> Transverse perineal of pudic. <i>}</i> Muscular of perineal.
		Erector penis (erector clitoridis in female)	<i>Arteries</i> <i>Nerves</i>	<i>{</i> Superficial perineal. <i>}</i> Muscular of perineal.
	To draw down and fix central point of peri- neum	Deep transverse		
	To constrict the urethra	Constrictor urethra	<i>Arteries</i> <i>Nerves</i>	<i>{</i> Internal pudic. <i>}</i> Muscular of perineal.
	To raise and support coccyx	Coccygeus	<i>Arteries</i> <i>Nerves</i>	<i>{</i> Sciatic. <i>}</i> 4th and 5th anterior sacral.

UPPER EXTREMITY.

Muscles of Scapula.	Moving it back- wards	Trapezius	<i>Arteries</i>	{	Branches of superficial cervical and pos- terior scapular.
			<i>Nerves</i>	{	Spinal accessory and 3rd and 4th cervical.
	Moving it forwards	Rhomboidei (major and minor)	<i>Arteries</i>	{	Posterior scapular.
			<i>Nerves</i>	{	Rhomboid branch of 5th cervical.
		Pectoralis (minor)	<i>Arteries</i>	{	Superior thoracic.
			<i>Nerves</i>	{	Acromio-thoracic.
	Moving it upwards	Serratus magnus	<i>Arteries</i>	{	Long thoracic.
			<i>Nerves</i>	{	Anterior intercostal.
	Moving it down- wards	Levator anguli scapulæ	<i>Arteries</i>	{	Internal anterior thoracic.
			<i>Nerves</i>	{	Acromial-thoracic.
		Subclavius	<i>Arteries</i>	{	Long thoracic.
			<i>Nerves</i>	{	Subscapular. [(nerve of Bell). Posterior thoracic from 5th and 6th cervical

E

Muscles of Shoulder Joint.	Flexor	Pectoralis (major)	{ Arteries	{ Superior thoracic.
			{ Nerves	{ Acromio-thoracic.
	Extensors	{ Teres (major)	{ Arteries	{ Long thoracic.
			{ Nerves	{ Anterior intercostal.
		{ Latissimus dorsi	{ Arteries	{ External and internal anterior tho- racic.
			{ Nerves	{ Subscapular.
	Adductors	{ Coraco brachialis; flex- ors, extensors and long head of triceps assist	{ Arteries	{ Subscapular.
			{ Nerves	{ Subscapular and posterior scapular.
				{ Long subscapular.
				{ Superior profunda, and muscular branches of brachial.
	Abductors	{ Deltoid	{ Arteries	{ Musculo-cutaneous.
			{ Nerves	{ Acromial-thoracic.
{ Supra-spinatus		{ Arteries	{ Anterior and posterior circumflex.	
		{ Nerves	{ Superior profunda.	
			{ Circumflex.	
			{ Supra-scapular.	
	{ Supra-scapular.			

Muscles of Shoulder Joint. (Continued.)	{ Rotators in	{ Subscapularis flexors and extensors	{ Arteries Nerves	{ Long thoracic. Subscapular. Dorsal branch of subscapular. Subscapular.
	{ Rotators out	{ Infra-spinatus Teres (minor)	{ Arteries Nerves Arteries Nerves	{ Supra-scapular. Dorsal branch of subscapular. Posterior scapular. Supra-scapular. Dorsal branch of subscapular. Circumflex.

Muscles of Elbow Joint.	{ Flexors	{ Biceps Brachialis-Anticus, and pronator teres when radius is fixed	{ Arteries Nerves Arteries Nerves	{ Muscular branches of brachial. Musculo-cutaneous. Radial recurrent. Anterior ulnar recurrent. Muscular of brachial. Musculo-spiral. Musculo-cutaneous,

**Muscles of
Elbow Joint.**
(Continued.)

Muscles of Elbow Joint. (Continued.)	Extensors	Triceps	{ <i>Arteries</i> { <i>Nerves</i>	{ Superior profunda. { Inferior profunda. { Anastomotica. { Musculo-spiral.
		Anconeus	{ <i>Arteries</i> { <i>Nerves</i>	{ Recurrent branches about elbow joint. { Branch of musculo-spiral.
	Pronators of radius	Pronator teres	{ <i>Arteries</i> { <i>Nerves</i>	{ Anterior ulnar recurrent. { Anastomotica magna. { Branches of median.
		Pronator quadratus	{ <i>Arteries</i> { <i>Nerves</i>	{ Muscular branch of radial and ulnar. { Anterior interosseous. { Anterior interosseous of median.
	Supinators of radius	Supinator longus	{ <i>Arteries</i> { <i>Nerves</i>	{ Radial recurrent. { Muscular of radial. { Musculo-spiral.
		Supinator brevis	{ <i>Arteries</i> { <i>Nerves</i>	{ Radial recurrent. { Muscular of radial. { Posterior interosseous of musculo-spiral.
		Biceps (for arterial and nervous supply, see page 27).		

Wrist Joint.	Flexors	Carpi radialis	{ <i>Arteries</i>	Muscular branch of radial.
			{ <i>Nerves</i>	Branch of median.
		Carpi ulnaris	{ <i>Arteries</i>	{ Posterior ulnar recurrent, and muscular
	Extensors		{ <i>Nerves</i>	branches of ulnar.
		Palmaris longus	{ <i>Arteries</i>	Ulnar.
			{ <i>Nerves</i>	Muscular branches of ulnar.
		Radialis longior	{ <i>Arteries</i>	Branches of median.
			{ <i>Nerves</i>	Posterior interosseous of ulnar.
		Radialis brevior	{ <i>Arteries</i>	Branches of musculo-spiral.
			{ <i>Nerves</i>	Posterior interosseous.
		Carpi ulnaris	{ <i>Arteries</i>	Posterior interosseous.
			{ <i>Nerves</i>	Posterior interosseous.

Muscles of Digits.	{	Common extensor	Communis digitorum	{	<i>Arteries</i>	Posterior interosseous of ulnar.		
				{	<i>Nerves</i>	Posterior interosseous.		
	{	Common flexors	{	Sublimis	{	<i>Arteries</i>	{ Ulnar and median of anterior interosseous.	
					{	<i>Nerves</i>	Branches of median.	
			{	Profundus	{	<i>Arteries</i>	Anterior interosseous.	
					{	<i>Nerves</i>	Ulnar supplies half, and median half.	
	{	Flexors	{	Longus pollicis	{	<i>Arteries</i>	Anterior interosseous of ulnar.	
					{	<i>Nerves</i>	Anterior interosseous of median.	
			{	Brevis pollicis	{	<i>Arteries</i>	Superficialis volæ.	
					{	<i>Nerves</i>	{ Outer head—median.	
			{			{	<i>Nerves</i>	{ Inner head—ulnar.
		Thumb	{	{	Flexor of } Opponens	{	<i>Arteries</i>	Superficialis volæ.
					metacarpal bone } pollicis	{	<i>Nerves</i>	Median.
{			Extensors	{	Ossis metacarpi pollicis	{	<i>Arteries</i>	Posterior interosseous.
						{	<i>Nerves</i>	Posterior interosseous.
	{	Primi internodii pollicis		{	<i>Arteries</i>	Posterior interosseous.		
				{	<i>Nerves</i>	Posterior interosseous.		
	{	<i>Arteries</i>	Posterior interosseous.					
	{	<i>Nerves</i>	Posterior interosseous.					

Muscles of Digits. (Continued.)	Thumb	Adductor pollicis	{ Arteries Nerves	Superficialis volæ. Ulnar.
		Abductor pollicis	{ Arteries Nerve	Superficialis volæ. Median.
	Little finger	Extensor minimi digiti	{ Arteries Nerves	Posterior interosseous. Posterior interosseous.
		Flexor brevis minimi digiti	{ Arteries Nerves	{ Profunda branch of ulnar (communi- cating branch). Ulnar.
		Adductor minimi digiti (of metacarpal bone)	{ Arteries Nerves	Ulnar. Ulnar.
		Abductor minimi digiti	{ Arteries Nerves	Deep branch of ulnar. Ulnar.
	Fore finger	Extensor indicis	{ Arteries Nerves	Posterior interosseous. Posterior interosseous.
	Flexors of metacar- po-phalangeal joints	Lumbricales	{ Arteries Nerves	Palmar arch. { 2 Outer median. 2 Inner ulnar.
	Interossei	Palmar act as adductors to middle finger	{ Arteries Nerves	Deep palmar arch. Ulnar.
		Dorsal act as abductors from middle finger		

LOWER LIMB.

Hip Joint.	{	Extensor	Gluteus maximus	{ Arteries	{ Sciatic, Gluteal.	
				{ Nerves	{ 1st Perforating of profunda.	
	{	Flexors	{	Psoas	{ Arteries	Lumbar branches of ilio lumbar.
				{ Nerves	Branches of lumbar plexus.	
			{	Iliacus	{ Arteries	Iliac branch of ilio lumbar.
				{ Nerves	Anterior crural.	
	{	Adductors	{	Longus	{ Arteries	{ Internal circumflex.
				{ Nerves	{ Muscular of femoral.	
			{	Brevis	{ Arteries	{ Internal circumflex.
				{ Nerves	{ 1st Perforating of profunda. [sometimes].	
			{	Magnus	{ Arteries	{ Posterior division of obturator, (anterior division
					{ Nerves	{
			{	Pectineus	{ Arteries	{ Internal circumflex.
					{ Nerves	{ Anterior crural.
					{ Anterior division of obturator (sometimes).	
NOTE. Gracilis assists.						

Hip Joint.
(Continued.)

Abductors	{	Gluteus medius	{	Arteries	Gluteal.
		Minimus	{	Nerves	Superior gluteal of lumbo sacral.
				Arteries	Gluteal.
				Nerves	Superior gluteal of lumbo sacral.
		Tensor fasciæ latæ	{	Arteries	Ascending branch of external circumflex.
Nerves	Superior gluteal of lumbo sacral.				
(NOTE. Gluteus maximus assists.					
Rotators out	{	Pyriformis	{	Arteries	Sciatic, Gluteal.
				Nerves	Branches of sacral plexus.
		Obturator internus	{	Arteries	Sciatic, Gluteal.
				Nerves	Branches of sacral plexus.
		Quadratus femoris	{	Arteries	Sciatic and internal circumflex.
				Nerves	Branches of sacral plexus.
		Obturator externus	{	Arteries	Internal circumflex.
				Nerves	Posterior division of obturator.
		Gemelli	{	Arteries	Sciatic, Gluteal.
				Nerves	Branches of sacral plexus.
(NOTE. Gluteus maximus and Psoas are accessories.					
Rotators in		Anterior fibres of Gluteus Medius, Gluteus minimus and Tensor Fasciæ Latæ.			

F

Knee Joint.	Flexors (behind)	Biceps	{ Arteries	{ Muscular of popliteal.
			{ Nerves	{ 1st Perforating of profunda.
		Semi-tendinosus	{ Arteries	{ Great sciatic.
			{ Nerves	{ Profunda.
	Flexors (in front)	Semi-membranosus	{ Arteries	{ Profunda.
			{ Nerves	{ Muscular of popliteal.
		Popliteus	{ Arteries	{ Great sciatic.
			{ Nerves	{ Profunda.
		Gracilis	{ Arteries	{ Muscular of popliteal.
			{ Nerves	{ Great sciatic.
		Sartorius	{ Arteries	{ Popliteal.
			{ Nerves	{ Posterior tibial.
			{ Arteries	{ Branches of internal popliteal.
			{ Nerves	{ Internal circumflex.
			{ Arteries	{ Anterior crural.
			{ Nerves	{ Anterior branch of obturator.
			{ Arteries	{ External circumflex.
			{ Nerves	{ Muscular of femoral.
			{ Arteries	{ Anterior crural.
			{ Nerves	{ Middle or internal cutaneous.

Knee Joint. (Continued.)	} Extensors	{ Rectus	{ <i>Arteries</i>	Descending branches of external circumflex.
			{ <i>Nerves</i>	Anterior crural.
		{ Vastus externus	{ <i>Arteries</i>	{ External circumflex. Muscular of popliteal.
			{ <i>Nerves</i>	{ Superior external articular of popliteal. Anterior crural. [branch].
		{ Vastus internus	{ <i>Arteries</i>	{ Muscular of femoral and anastomotic (deep Descending of external circumflex.
			{ <i>Nerves</i>	{ Superior articular of popliteal. Anterior crural.

Movements of Tibia.	{ Rotators out	{	Biceps.*
			{ Semi-membranosus.*
	{ Rotators in	{ Behind	{ Semi-tendinosus.* Popliteus.*
		{ In front	{ Gracilis.* Sartorius.*

* For the vascular and nervous supply of these muscles see page 34.

Ankle Joint.	{	Flexors	{	Tibialis anticus	{	Arteries	Anterior tibial.			
				Nerves	Anterior tibial.					
				Peroneus tertius	{	Arteries	Peroneal.			
				Nerves	Anterior tibial.					
	{	{	(Lateral)	Peroneus longus	{	Arteries	Peroneal.			
				Nerves	Musculo-cutaneous of peroneal.					
				Peroneus brevis	{	Arteries	Peroneal.			
				Nerves	Musculo-cutaneous of peroneal.					
				{	{	(Posterior)	Gastrocnemius	{	Arteries	Muscular of popliteal.
							Nerves	Internal popliteal.		
							Soleus	{	Arteries	{ Muscular of peroneal.
							Nerves	{ Posterior tibial.		
							Plantaris	{	Arteries	Internal popliteal.
							Nerves	Muscular of popliteal.		
{	{	Tibialis posticus	{	Arteries	Peroneal.					
			Nerves	{ Posterior tibial.						
						Posterior tibial.				

Muscles of Toes.	{ Common exten- sors	Longus digitorum	{ Arteries	Anterior tibial.
		Brevis digitorum	{ Nerves	Anterior tibial.
	{ Common Flexors	Longus digitorum	{ Arteries	Tarsal branch of dorsal artery of
			{ Nerves	Anterior tibial. [foot.
		Brevis digitorum	{ Arteries	Posterior tibial.
			{ Nerves	Posterior tibial.
		{ Accessory muscles of of long flexor	{ Arteries	{ Internal and external plantar ar- teries.
			{ Nerves	Internal plantar.
			{ Arteries	External plantar.
			{ Nerves	External plantar.
		{ Lumbricales	{ Arteries	{ 2 Internal by internal plantar.
				{ Digital of plantar arch.
			{ Nerves	{ 1st and 2nd by Internal plantar.
				{ 3rd and 4th by External plantar.

Muscles of Toes. (Continued.)	Special muscles of great toe	Extensor	Longus Pollicis	{ Arteries Nerves	Anterior tibial. Anterior tibial.
		Flexors	Brevis Pollicis	{ Arteries Nerves	Internal and external plantar. Internal plantar.
			Longus Pollicis	{ Arteries Nerves	Posterior tibial and peroneal. Posterior tibial.
		Abductor	Pollicis	{ Arteries Nerves	Internal and external plantar. Internal plantar.
	Special muscles of little toe	Adductor	Pollicis	{ Arteries Nerves	Branches of plantar arch. External plantar.
		Flexor	Brevis minimi digiti	{ Arteries Nerves	1st Digital of plantar arch. External plantar.
			Abductor Minimi digiti	{ Arteries Nerves	External plantar. External plantar.
		Abductor	Minimi digiti	{ Arteries Nerves	External plantar. External plantar.

Remaining Muscles of Sole.	Transversalis pedis (will adduct the great toe and approximate the other toes)	{ Arteries Nerves	Digital branches from plantar arch. External plantar.
	Interossei	{ Arteries Nerves	{ Digital branches from plantar arch. Metatarsal of dorsal pedis. External plantar.

[NOTE.]

Only the larger arteries are given in the vascular supply of these tables.
In some of the facial muscles the sensory as well as the motor nerve-supply is given.

CORRIGENDA.

- Page 7, *Arteries to Platysma*, for Superficial cervical read Superficial thyroid artery.
— 7, *Mylo hyoid muscle*, for Hyoid branch of superficial thyroid artery read Hyoid branch of lingual.
— 13, for *Crico arytaenoidei laterales* read *Crico arytaenoidei laterales*.
— 13, for *Compressor of sacculi laryngis* read *Compressor sacculi laryngis*.

